Cumulative Review 5 (Graphing) key

Show algebraically: Even if f(x) = f(-x) Odd if f(-x) = -f(x)

1. a) even c) neither

3. factor f(x) to find restrictions on the domain, asymptotes, holes, and zeros

Domain: $(-\infty, -3) \cup (-3, 5) \cup (5, \infty)$

Range: $(-\infty, 1) \cup (1, \infty)$

Asymptotes: $x = 5$

Now graph

5. (-2, -4)

7. Domain: [-1, 2] Range: [-1, 0]U[1]